



CIVIL TECH LABS

Accredited by **NABL** as per ISO / IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2567 / Mob: 96862 31801, Email: civiltechlabs@gmail.com



To,

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division,
BBMP,

22nd May 2015

Dear Sir,

Sub: Testing of Wet Mix Macadam.

As requested, the required tests were carried out for the Wet Mix Macadam samples supplied by you, for the work of **'Construction of drains and culverts in asphaltting to cross roads of GKVK layout in ward no 04'**.

AE W-4 Please find the enclosed Test Report of the above.

**Thanking You,
For Civil Tech Labs**


(KHUSHBOO L.)
Quality Manager





CIVIL TECH LABS

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TEST REPORT

GRADATION TEST ON WET MIX MACADAM

Name & Address of the Customer	ARE, Yelahanka Betalthe Town Sub Division, BEML
Nature of Work	Construction of drainage and culverts in asphaltting in cross roads of GKVK layout in ward no 04.
Name of the Agency	M/s. Technical Manager (West)
Date of Testing	22/05/2015
Technical Reference	MORTH Table 400-13

Sieve Designation (mm)	% By Weight Passing IS Sieve	Actual % By Weight Passing IS Sieve	Remarks
53	100	100	Statistical Requirements
45	95-100	98.8	
22.4	60-80	75.3	
11.2	40-60	54.8	
4.75	25-40	34.1	
2.36	15-30	23.5	
0.6	8-22	12.8	
0.075	0-5	0.3	

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the client.

[Signature]
Lab Incharge
Civil Tech Labs





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5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob: 96862 31801. Email: civiltechlabs@gmail.com



T-2654

To,

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division,
BBMP.

18th May 2015

Dear Sir,

Sub: Construction of drains and culverts in asphaltting to cross roads of GKVK
layout in ward no 04.
Testing of cubes - Reg.

As requested the 07th day Compressive Strength Test of Cubes was carried out for
the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,


(KHUSHBOO L.)
Quality Manager



TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	ARE, Yelahanka Satellite Town Sub Division, BMRB
Name of Work	Construction of drains and culverts in replacing to cross roads of GKVK layout in ward no 04
Name of Agency	M/s. Technical Manager (West)
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm ²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

SL No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (kN)	Compressive Strength (N/mm ²)	Avg Compressive Strength (N/mm ²)
1	CC Work	11/05/2015	18/05/2015	7	8.16	330	14.67	14.87
2					8.18	334	14.84	
3					8.20	340	15.11	

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At 11.4

Kushboo
Lab Incharge
Civil Tech Labs





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#5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
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To,

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division,
BBMP.

08th May 2015

Dear Sir,

Sub: Testing of Reinforcement Steel Bars.

As requested, the required tests were carried out for the Reinforcement Steel Bars samples supplied by you, for the work of '**Construction of drains and culverts in asphaltting to cross roads of GKVK layout in ward no 04**'.

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs


(KHUSHBOO L.)
Quality Manager





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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 8 mm

Name & Address of the Customer	ARE, Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Construction of drains and culverts in asphaltting to cross roads of GKVK layout in ward no 04.
Name of the Agency	M/s. Technical Manager (West)
Date of Testing	08/05/2015

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	8	8	Satisfactory
2	Wt/m Length (Kg/m)	0.395	0.395	Satisfactory
3	Bend & Rebend Test	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.7	14.5	Satisfactory
5	Yield Stress (N/Sq.mm)	421	415	Satisfactory
6	U T S (N/Sq.mm)	525	485	Satisfactory

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Atk L-1
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Lab Incharge
Civil Tech Labs



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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 10mm

Name & Address of the Customer	AEE, Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Construction of drains and culverts in asphaltting to cross roads of GEVK layout in ward no 04.
Name of the Agency	M/s. Technical Manager (West)
Date of Testing	08/05/2015

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (kg/m)	0.618	0.617	Satisfactory
3	Bend & Rebend (Test)	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.9	14.5	Satisfactory
5	Yield Stress (N/Sq.mm)	423	415	Satisfactory
6	U T S (N/Sq.mm)	529	485	Satisfactory

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Kushboo
Lab Incharge
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T-2654

To,

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division,
BBMP.

30th April 2015

Dear Sir,

Sub: Testing of Materials.

As requested, the required tests were carried out for the materials the samples supplied by you, for the work of **'Construction of drains and culverts in asphaltting to cross roads of GKVK layout in ward no 04'**.

Please find the enclosed Test Reports of the above.

**Thanking You,
For Civil Tech Labs**


(KHUSHBOO L.)
Quality Manager





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5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
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TEST REPORT TEST ON CEMENT

Name & Address of the Customer	AEE, Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Construction of drains and culverts in upholding to cross roads of GKVK layout in ward no 04
Name of the Agency	M/A. Technical Manager (West)
Date of Testing	30/04/2015

Test	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	IS-4031 (Part-5) 1988	VICAT	53	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	IS-4031 (Part-5) 1988	VICAT	492	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	IS-4031 (Part-3) 1988	LE CHATELIER	5	mm	Not More Than 10 mm	Satisfies Requirement

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Kushboo
Lab Incharge
Civil Tech Labs



AE L.A.
[Signature]



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Ph: (080) - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

TEST ON FINE AGGREGATES Ref: IS 383/2386

Name & Address of the Customer	AEE, Yeshwantha Smarite Town Sub Division, DDMP
Name of Work	Construction of drains and culverts in asphaltting to cross roads of CKYK layout in ward no 04.
Name of the Agency	M/s. Technical Manager (West)
Date of Testing	30/04/2015
Specific Gravity	2.58

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970				Grading Zone
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV	
River Sand	10	100	100	100	100	100	II
	4.75	98.7	90-100	90-100	90-100	95-100	
	2.36	98.4	60-95	75-100	85-100	95-100	
	1.18	76.8	30-70	55-90	75-100	90-100	
	0.6	45.8	15-34	35-50	60-79	80-100	
	0.3	25.1	5-20	8-30	12-40	15-50	
	0.15	8.6	0-10	0-10	0-10	0-15	

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Krushboo
Lab Incharge
Civil Tech labs





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TEST REPORT

TEST ON COARSE AGGREGATES 40mm $\downarrow$ Graded Ref:IS:383/2380

Name & Address of the Customer	AEE, Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Construction of drains and culverts in asphalt to cross roads of GKVK layout in ward no: 04
Name of the Agency	M/s. Technical Manager (West)
Date of Testing	30/04/2015
Specific Gravity	2.69
Water Absorption in %	0.28

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
80	100	100	Satisfies the requirement
40	98.6	95-100	
20	57.4	30-70	
10	28.3	10-35	
4.75	3.8	0-5	

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Lab Incharge
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TEST REPORT

TEST ON COARSE AGGREGATES 20mm ↓ Graded Ref:IS:383/2086

Name & Address of the Customer	ABB, Yelahanka Satellite Town Sub Division, UBBMP
Name of Work	Construction of drains and culverts in asphalted to cross roads of GKVK layout in ward no 04.
Name of the Agency	M/s. Technical Manager (West)
Date of Testing	30/04/2015
Specific Gravity	2.64
Water Absorption in %	0.31

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
40	100	100	Satisfies the requirement
20	99.2	95-100	
10	44.4	25-55	
4.75	7.8	0-10	

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Kishor
Lab Incharge
Civil Tech Labs





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9, 1st Cross, Srihivasa Colony, Mission Road, Bangalore - 560027

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To,

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division,
BBMP.

04th June 2015

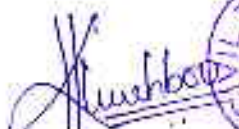
Dear Sir,

Sub: Testing of Semi Dense Bituminous Concrete.

As requested, the required tests were carried out for the Semi Dense Bituminous Concrete samples supplied by you, for the work of '**Construction of drains and culverts in asphaltting to cross roads of GKV layout in ward no-04**'.

Please find the enclosed Test Report of the above.

AE L-1
2
**Thanking You,
For Civil Tech Labs**


(KHUSHBOO L.)

Quality Manager





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5, 1st Cross, Sriyalasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4134 2887, Email: civiltechlabs@gmail.com

TEST REPORT

TEST ON THE DETERMINATION OF BITUMEN CONTENT ON SEMI DENSE BITUMINOUS CONCRETE MIX-GRADE 2

Name & Address of the Customer	AEE, Yelahanka Satellite Town Sub Division, ITMP
Name of Work	Construction of drains and culverts in asphaltung in cross roads of GKVK layout in ward no 04.
Name of the Agency	M/s, Technical Manager (West)
Date of Testing	04/06/2015

A) Sl. No.	Test	Test Method	Technical Reference
1	Extraction of mineral aggregate	Test Method A (Centrifuge Method)	ASTM: D2172/ D2172M-11
2	Determination of amount of mineral matter/fines in the extract	Ashing Method	

B) Specification: As Per MORTN (4th Revision) Table 500-15, Bitumen Content for SDBC Grade-2 is MIN 5%		
Sl. No.	Description	Values
1	Weight of bituminous mixture before extraction test, W_1 g	2000
2	Weight of mineral aggregate obtained from centrifuge extractor, W_2 g	1885.3
3	Weight of mineral matter in the total volume of extract (by ashing), W_3 g	12.7
4	Total weight of aggregate in the bituminous mixture, W_4 g = $(W_2 + W_3)$ g	1898
5	Total weight of Bitumen extracted from the mixture, W_5 g = $(W_1 - W_4)$ g	102
6	Bitumen content in %, (W_5/W_4) %	5.10

Remarks	Satisfies the requirements.
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Krushboo
Lab Incharge
Civil Tech Labs





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TEST REPORT

GRADATION TEST ON SEMI DENSE BITUMINOUS CONCRETE MIX GRADE - 2

Name & Address of the Customer	AEE, Yelahanka Satellite Town Sub Division, BRMP
Name of Work	Construction of drains and culverts in saplinging to cross roads of GSVN layout in ward no 04.
Name of the Agency	M/o. Technical Manager (West)
Date of Testing	04/06/2015
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011)

Sample-2			
IS Sieve Designation (mm)	% By Weight Passing IS Sieve as per MORTN (4th Revision) Table 300-15 for SDBC Grade-2	Actual % By Weight Passing IS Sieve	Remarks
13.2	100	100	Satisfies the requirements
9.5	90-100	98.5	
4.75	35-51	45.3	
2.36	24-39	33.8	
1.18	15-30	26.1	
0.3	9-19	15.3	
0.075	3-8	6.9	

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Lab Incharge
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